

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0824 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

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|---|--|
| Desc. By: Heather Percy | Locality: |
| Date Desc.: 26/05/93 | Elevation: 351 metres |
| Map Ref.: | Rainfall: No Data |
| Northing/Long.: 6244390 AMG zone: 50 | Runoff: No Data |
| Easting/Lat.: 532690 Datum: AGD84 | Drainage: Moderately well drained |

Geology

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| ExposureType: Auger boring | Conf. Sub. is Parent. Mat.: No Data |
| Geol. Ref.: No Data | Substrate Material: No Data |

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

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|-------------------------------|--------------------------------|
| Morph. Type: Mid-slope | Relief: 35 metres |
| Elem. Type: Hillslope | Slope Category: No Data |
| Slope: 4 % | Aspect: 315 degrees |

Surface Soil Condition Firm

Erosion: (wind); (sheet) (rill) (gully)

Soil Classification

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|---|---------------------------------------|
| Australian Soil Classification: N/A | Mapping Unit: N/A |
| ASC Confidence: Confidence level not specified | Principal Profile Form: Dg4.41 |
| | Great Soil Group: N/A |

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

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|------|---------------|--|
| A1 | 0 - 0.15 m | Very dark grey (10YR3/1-Moist); ; Clayey sand; Massive grade of structure; Moist; Very weak |
| | | consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 |
| | | (Raupach); Many, very fine (0-1mm) roots; Abrupt change to - |
| A21 | 0.15 - 0.35 m | Brown (10YR5/3-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Moist; Loose |
| | | consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2-10%, medium |
| | | gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Gradual change to - |
| A22e | 0.35 - 0.55 m | Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Moderately moist; Loose consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse |
| | | fragments; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 6 |
| | | (Raupach); Common, very fine (0-1mm) roots; Clear change to - |
| B2 | 0.55 - 0.7 m | Very pale brown (10YR7/3-Moist); Mottles, 7.5YR58, 10-20% , 5-15mm, Distinct; , 10R46, 10-20% , 15- |
| | | 30mm, Prominent; Light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; |
| | | Firm consistence; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Abrupt change to - |
| C | 0.7 - 0.8 m | Brownish yellow (10YR6/6-Moist); Substrate influence, 2.5Y83, 20-50% , 15-30mm, Distinct; Sandy clay |
| | | loam; Massive grade of structure; Moderately moist; Firm consistence; Field pH 6 (Raupach); |

Morphological Notes

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| B2 | Very slight dispersion |
| C | Weathered granite |

Observation Notes

Site Notes

Nooknellup South Road opposite Ngopitchup Nature Reserve

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-------------|------|--------|-------|-----------------|-----------|-------------|----------------------|-----|-------|-----|
| m | | dS/m | | | | Cmol (+)/kg | | | | % |
| 0 - 0.1 | 4.9B | | | | | | | | | |
| 0.15 - 0.25 | 4.6B | | | | | | | | | |
| 0.4 - 0.5 | 4.7B | | | | | | | | | |
| 0.55 - 0.7 | 5.3B | 5B | 1.93H | 4.6 | 0.04 | 0.57 | 0.02J | | 7.14D | |
| | 6.4H | | | | | | | | | |
| 0.55 - 0.7 | 5.3B | 5B | 1.93H | 4.6 | 0.04 | 0.57 | 0.02J | | 7.14D | |
| | 6.4H | | | | | | | | | |

| Depth | CaCO ₃ | Organic C Clay | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis |
|-------------|-------------------|----------------|----------|---------|---------|---------|-------------------|------------------------|
| m | % | % | mg/kg | % | % | % | Mg/m ³ | GV CS FS Silt |
| 0 - 0.1 | | | | | | | | |
| 0.15 - 0.25 | | | | | | | | |
| 0.4 - 0.5 | | | | | | | | |
| 0.55 - 0.7 | | | | | | | | 47.5I 9.5 |
| 43 | | | | | | | | |
| 0.55 - 0.7 | | | | | | | | 47.5I 9.5 |
| 43 | | | | | | | | |

Laboratory Analyses Completed for this profile

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|-----------|---|
| 15_NR_BSa | Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available |
| 15_NR_CMR | Exchangeable bases (Ca/Mg ratio) - Not recorded |
| 15E1_AL | Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts |
| 15E1_CA | Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble salts |
| 15E1_K | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15E1_MG | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15E1_MN | Exchangeable bases (Mn ²⁺) by compulsive exchange, no pretreatment for soluble salts |
| 15E1_NA | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15J_BASES | Sum of Bases |
| 15N1_b | Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations |
| 3_NR | Electrical conductivity or soluble salts - Not recorded |
| 4_NR | pH of soil - Not recorded |
| 4B_AL_NR | Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded |
| 4B1 | pH of 1:5 soil/0.01M calcium chloride extract - direct |
| P10_gt2m | > 2mm particle size analysis, (method not recorded) |
| P10_NR_C | Clay (%) - Not recorded |
| P10_NR_S | Sand (%) - Not recorded |
| P10_NR_Z | Silt (%) - Not recorded |